NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NEWZEN CONSULTANT * Bangalore *

NC/QC/BD/2020-21/W5-DD-C3 **Date: 15-02-2021**

## 1. TEST REPORT ON CEMENT:

**Sub**: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
**Ref.**: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

### PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

**TABLE 1.1:**

| SL No | Name of Test | Test Results | Requirements as per IS 8112-1989 |
|---|---|---|---|
| 1 | Initial setting time | **156 min** | Shall not be less than 30 min |
| 2 | Final setting time | **275 min** | Shall not be more than 600 min |
| 3 | Fineness (by dry sieving on IS 90 micron sieve) | **2.13 %** | Not to exceed 10.0% |
| 4 | Soundness test(by Le-Chatelier's method) | **2.06 mm** | Shall not be more than 10 mm |
| 5 | Compressive strength c) 3 days (average of three results) | **28.74 N/Sq mm** | Shall not be less than 27 N/Sqmm |

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **4th Main Road**

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ



For Newzen Consultants Bangalore
Proprietor

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Scanned with CamScanner

NEWZEN CONSULTANT * Bangalore *

NC/QC/BD/2020-21/W5-DD-PCC3 **Date: 15-02-2021**

**1. TESTING OF COARSE AND FINE AGGREGATES:**

**Sub**: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}

**Ref.**: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Umesh. N, Bangalore.

**1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:**

| IS Sieve Size, mm | Percentage passing | Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing | |
|---|---|---|---|
| | 40 mm Sample | Single size | Graded |
| 40mm | 100.00 | 85-100 | 90 – 100 |
| 20mm | 62.70 | 0 -20 | 30- 70 |
| 10mm | 30.90 | 0 -5 | 10- 35 |
| 4.75mm | 4.05 | ------ | 0- 5 |

**2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:**

| IS Sieve Size, mm | Percentage Passing | Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing | | | Remarks |
|---|---|---|---|---|---|
| | | Zone-I | Zone-II | Zone -III | |
| 04.75 | 95.45 | 90-100 | 90-100 | 90-100 | The Sample Conforms to Grading **Zone-II** |
| 02.36 | 81.90 | 60-95 | 75-100 | 85-100 | |
| 01.18 | 73.20 | 30-70 | 55-90 | 75-100 | |
| 600.mic | 46.10 | 15-34 | 35-59 | 60-79 | |
| 300.mic | 23.75 | 5-20 | 8-30 | 12-40 | |
| 150.mic | 6.80 | 0-10 | 0-10 | 0-10 | |

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : **4th Main Road**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

For Newzen Consultants Bangalore
Proprietor



NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Scanned with CamScanner

# NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

CONSULTANT * Bangalore *

NC/QC/BD/2020-21/W5-DD-C4

Date: 16-02-2021

## 1. TEST REPORT ON CEMENT:

**Sub**: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
**Ref.**: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

### PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

**TABLE 1.1:**

| SL No | Name of Test | Test Results | Requirements as per IS 8112-1989 |
|---|---|---|---|
| 1 | Initial setting time | **162 min** | Shall not be less than 30 min |
| 2 | Final setting time | **270 min** | Shall not be more than 600 min |
| 3 | Fineness (by dry sieving on IS 90 micron sieve) | **2.11 %** | Not to exceed 10.0% |
| 4 | Soundness test(by Le-Chatelier's method) | **2.09 mm** | Shall not be more than 10 mm |
| 5 | Compressive strength d) 3 days (average of three results) | **28.85 N/Sq mm** | Shall not be less than 27 N/Sqmm |

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **4th Main Road**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

**Page No. 1/1,**

For Newzen Consultants Bangalore
Proprietor



Scanned with CamScanner

NEWZEN CONSULTANT ★ Bangalore ★

NC/QC/BD/2020-21/W5-DD-PCC4 **Date: 16-02-2021**

**1. TESTING OF COARSE AND FINE AGGREGATES:**

**Sub**: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}

**Ref.**: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Umesh. N, Bangalore.

**1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:**

| IS Sieve Size, mm | Percentage passing | Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing | |
|---|---|---|---|
| | 40 mm Sample | Single size | Graded |
| 40mm | 100.00 | 85-100 | 90 – 100 |
| 20mm | 66.25 | 0 -20 | 30- 70 |
| 10mm | 31.80 | 0 -5 | 10- 35 |
| 4.75mm | 4.10 | ------ | 0- 5 |

**2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:**

| IS Sieve Size, mm | Percentage Passing | Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing | | | Remarks |
|---|---|---|---|---|---|
| | | Zone-I | Zone-II | Zone -III | |
| 04.75 | 96.45 | 90-100 | 90-100 | 90-100 | The Sample Conforms to Grading **Zone-II** |
| 02.36 | 83.90 | 60-95 | 75-100 | 85-100 | |
| 01.18 | 72.55 | 30-70 | 55-90 | 75-100 | |
| 600.mic | 46.10 | 15-34 | 35-59 | 60-79 | |
| 300.mic | 22.75 | 5-20 | 8-30 | 12-40 | |
| 150.mic | 6.55 | 0-10 | 0-10 | 0-10 | |

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : **4th Main Road**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26



For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Scanned with CamScanner

NEWZEN CONSULTANT ★ Bangalore ★

NC/QC/BD/2020-21/W5-DD-CB7

**Date: 25-02-2021**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
**Ref.**: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{30}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 18-02-21 | 25-02-21 | 07 | 22500 | 520 | 23.11 | **23.04** |
| | 002 | ‘’ | “ | ‘’ | “ | 525 | 23.33 | |
| | 003 | ‘’ | “ | ‘’ | “ | 510 | 22.67 | |

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **4th Main Road**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

**Page No. 1/1,**

For Newzen Consultants Bangalore
Proprietor



Scanned with CamScanner

NEWZEN CONSULTANT ★ Bangalore ★

NC/QC/BD/2020-21/W5-DD-CB8 **Date: 25-02-2021**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
**Ref.**: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{30}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 18-02-21 | 25-02-21 | 07 | 22500 | 520 | 23.11 | **23.19** |
| | 002 | " | " | " | " | 530 | 23.56 | |
| | 003 | " | " | " | " | 515 | 22.89 | |

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **4th Main Road**

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ



ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

For Newzen Consultants Bangalore
Proprietor

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

Scanned with CamScanner

NEWZEN CONSULTANT * Bangalore *

**NC/QC/BD/2020-21/W5-DD-CB8** **Date: 26-02-2021**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
**Ref.**: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{30}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 19-02-21 | 26-02-21 | 07 | 22500 | 525 | 23.33 | **23.56** |
| | 002 | ‘’ | “ | ‘’ | “ | 530 | 23.56 | |
| | 003 | ‘’ | “ | ‘’ | “ | 535 | 23.78 | |

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **4th Main Road**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

**Page No. 1/1,**

For Newzen Consultants Bangalore
Proprietor

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24



Scanned with CamScanner

NEWZEN CONSULTANT * Bangalore *

NC/QC/BD/2020-21/W5-DD-CB7A

**Date: 18-03-2021**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}

**Ref.**: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Umesh. N, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{30}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 18-02-21 | 18-03-21 | 28 | 22500 | 720 | 32.00 | **32.52** |
| | 002 | " | " | " | " | 735 | 32.67 | |
| | 003 | " | " | " | " | 740 | 32.89 | |

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : **4th Main Road**

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

**Page No. 1/1,**

For Newzen Consultants Bangalore
Proprietor

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24



Scanned with CamScanner

NEWZEN CONSULTANT * Bangalore *

NC/QC/BD/2020-21/W5-DD-CB8A

Date: 18-03-2021

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}

**Ref.**: Material testing/QC/20-21,

Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Umesh. N, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{30}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 18-02-21 | 18-03-21 | 28 | 22500 | 730 | 32.44 | **32.15** |
| | 002 | " | " | " | " | 725 | 32.22 | |
| | 003 | " | " | " | " | 715 | 31.78 | |

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : **4th Main Road**

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

**Page No. 1/1,**

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

For Newzen Consultants Bangalore
Proprietor



Scanned with CamScanner

NEWZEN CONSULTANT Bangalore

NC/QC/BD/2020-21/W5-DD-CB9A **Date: 19-03-2021**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads and drains at Muneshwara Nagara,Near Doddamma devi temple, Kattigenahalli village and Surrounding Area in Ward No.05.}
**Ref.**: Material testing/QC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Umesh. N, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{30}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 19-02-21 | 19-03-21 | 28 | 22500 | 730 | 32.44 | **32.37** |
| | 002 | " | " | " | " | 740 | 32.89 | |
| | 003 | " | " | " | " | 715 | 31.78 | |

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : **4th Main Road**

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

**Page No. 1/1,**

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

For Newzen Consultants Bangalore
Proprietor



Scanned with CamScanner